### Contrive

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### **Application Overview**

Contrive is an event management software platform that connects Event Planners with their local Vendors. With enhanced search features, Planners can find the types of Vendors they most want to do business with and can easily connect with them utilizing the message feature.

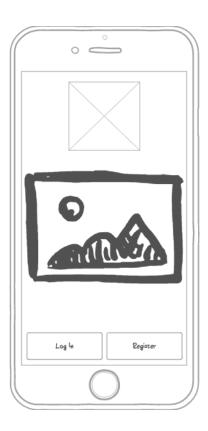
### Glossary of Terms Used:

- User: any registered account
  - Planner: a user who will be planning events on the app.
    Planners will use Contrive to create events, search for Vendors and plan out the details of their event.
  - Vendor: a user who supplies services such as catering to Planners.
    Vendors will use Contrive to market their business, become certified with Contrive, and and to be available for Planners.
  - Admin: a user who has special authority to edit and delete information, and will receive feedback from users.
     Admins use Contrive to help facilitate connections between Planners and Vendors.
- Base: What will be delivered to the client when the project cycle has been completed.
- Stretch: Features and enhancements to be added time permitting.

# **Application Views**

#### ❖ Landing Page:

- > Existing users can click the 'Login' button to go to the Login Page.
- > New users can click the 'Register' button to go to the Registration Page.
- ➤ Users will be brought to this page when they click the **Logout Button** in the **Components Drawer**.
- > Background image and logo provided by Contrive for this page.



#### **❖** Login Page:

- Users are navigated to this page by:
  - clicking the 'Login' button from the Landing Page.
  - clicking the 'Login' button on the Registration Page.
- There will be input fields for Email (Saved as "username" in the database) and Password.
- ➤ After successful form submission, the user will click the **Login button** and be automatically brought to the **Discover Page**.
- > New users can click the 'Register' button to be brought to the Registration Page.



#### **❖** Registration Page:

- Users are navigated to this page by:
  - clicking the 'Register' button on the Landing Page.
  - clicking the 'Register' button on the Login Page.
- > There will be input fields for Email and Password.
- The Registration page will collect all required information that is consistent for all users (whether Planner or Vendor) and will ask if the user is a Vendor or not, if the input is no, the user is defaulted to a Planner. Uploading a Planner profile photo is a Stretch Goal.
- > Upon choosing whether to be a vendor or not:
  - If not, the Planner will complete the left registration form, after which the Planner will be redirected to the **Discover Page**.
  - If so, the Vendor will fill out the information about their company, such as company name, logo, address, phone number, etc. After a successful form submission, clicking the 'Register' button will navigate the Vendor to the Discover Page.
- > Existing users can click the 'Login' button to be brought to the Login Page.





#### ❖ Navigation Bar:

The **Navigation Bar** will be along the bottom of the screen for the users' ease of access, providing a quick way of getting to the **Discover Page**, **Search Network**, **Create Event Page**, **All Messages**, and **Component Drawer pop-out**.

There will be a navigation bar on the bottom with icons across all pages for logged-in users. Each icon will bring the users to these unique pages:

#### > Planner Navigation:

- Icon one (Globe Icon) Bring users to the Discover Page
- Icon two (Search Icon) Bring users to The Network SearchPage
- Icon three (Plus Icon) Bring users to the Create Event Page
- Icon four (Message Icon) Bring users to the All Messages Page
- Icon five (Hamburger Lines) Slide open the Component Drawer

#### Vendor Navigation:

- Icon one (Globe Icon) Bring users to the Discover Page
- Icon two (Message Icon) Bring users to the All Messages Page
- Icon five (Hamburger Lines) Slide open the Component Drawer









#### Component Drawer:

The **Component Drawer** is where users can access their profile and all their planning and networking needs. When the user wants to find a menu of everything related to them or wants to log out, this is where they do that. The drawer comes in from the right side of the screen when they click on the **Burger Icon** in the **Navigation Bar.** 

- ➤ Users are brought to the Component Drawer page upon clicking the **Burger Icon** in the **Navigation Bar**.
- ➤ Clicking on the **Burger Icon** will open up a drawer from the right side of the screen, the drawer will show six different buttons:
  - "My Profile" Brings the users to their Profile Page, through either:
    - Event Planner Profile Page (Stretch)
    - Vendor Profile Page
  - "My Events" Brings the users to their My Events Page (Stretch)
  - "My Network" Brings users to their My Network Page (Event Planners Only) (Stretch)
  - "My Calendar" Brings users to their My Calendar Page (Stretch)
  - "Inspiration" Brings users to the Inspiration Page (Event Planners Only) (Stretch)
  - Logout Button Allows users to log out and brings them to the Landing
    Page



- Planners can view their events through the My Events (Stretch) and My Calendar (Stretch) buttons. They can view and edit their profile page through the My Profile (Stretch) button, and they can find the Vendors they have hired before or plan on hiring through the My Network button (Stretch), and finally, get ideas from other users through the Inspiration button (Stretch).
- ❖ Vendors only have three options on their Component Drawer. They can view and edit their profile page through the My Profile button, and can view their events through the My Events (Stretch) and My Calendar (Stretch) buttons.

#### **❖** Discover Page:

The **Discover Page** is where Planners and or Vendors arrive upon logging in or registering. On this page they will find two horizontal scrolling sections: one to view public events in their area or events recommended to users based on their past events and/or tastes and preferences (**Events News**), and the other to view an "About Contrive" section (**What can you do?**).

- > Vendors and or Planners are brought to this page upon:
  - registering or logging in from the Login and Registration Page.
  - clicking the Discover Icon in the Navigation Bar.
- ➤ Users can view two different categories of thumbnails in this view:
  - For Base, the Discover Page will be a static page with the ability to build out functionality as a Stretch. Initially the Discover Page will be built out with mock images received from the client.
  - "Events News" An upcoming public events horizontal scrolling list.
    - Display upcoming events created by any user on Contrive
  - "What can you do" An "about Contrive" horizontal scrolling list.
    - Demos of how to best utilize Contrive.



#### **❖** The Network Search Page:

**The Network Search Page** is used for Planners to find Vendors based on name, business size, and gender/race of owners. Searching by location, and proximity to location, will be a Stretch. Users will then see a grid of different Vendors which fit the description with their logo, rating (Stretch) and company name.

- ➤ Users are brought to this page upon clicking the Search Icon in the Navigation Bar.
- ➤ Users can search by name for Vendors. They have the choice to narrow down their search with 2 dropdowns, **Vendor Type**, and **Filters** 
  - "Vendor Type" Search locations by city and Search by radius (Stretch).
  - "Filters" Sort by categories (small companies, female-owned, etc)
- ➤ Upon search execution, a list of Vendors which consists of the Vendor Logo, Vendor rating (Stretch), and Vendor name will appear.
  - A "No Results/Matches" message will be displayed if no Vendors match the search criteria. Recommend Vendors is a Stretch.
- Clicking on a Vendor thumbnail/box will bring Planners to the Vendor Profile Page.



#### My Profile Page (Vendor):

The **My Profile Page (Vendors)** is where the Vendor can set up their profile, adding information and uploading and sharing events and photos. What they add here on the **My Profile Page** will be what other users see when they visit their profile. The most important aspect for Vendors to add on their profile page would be the **Special Features Keywords**, which is how Event Planners find Vendors.

- ➤ Vendors are brought to this page upon clicking the My Profile Button on the Component Drawer.
- ➤ Users will view the **Vendor's Profile Page** by clicking the Vendor thumbnail on **The Network Page** if the Vendor shows up in their search. Visiting users will be able to rate the Vendor (Stretch). Additionally, Vendors will see an "Edit" button when they visit the Network page.
- ➤ Vendors will display their company name, information, bio, special features, events (Stretch), and photos of events they have previously participated in (Stretch).
- ➤ The top menu buttons are interactive and have the following properties:
  - When the **Message** (envelope) icon is clicked, the user is redirected to the messaging functionality to start a message chain.
  - When the Phone Number (telephone) icon is clicked, the app dials the Vendor
  - When the **Location** (pin drop) icon is clicked, the device's native maps app opens and displays the Vendor's location.
  - When the **Website** (globe) icon is clicked, the Vendor's website is opened in a new tab.
  - When the Invite to Event (plus) icon is clicked, the user can add the Vendor to any of their upcoming events.







#### Edit Vendor Profile Page (Vendors):

Vendors can click the **Edit button** on their **My Profile Page** to get to the **Edit Vendor Profile Page**. The details on the profile page will turn into input fields where the Vendor can edit their information.

- Vendors are brought to this page upon clicking the Edit button on their My Profile Page.
- > Form for Event Planners to edit details about the event.
- Save button updates user information and brings the user back to their My Profile Page.
- > Cancel button redirects the user back to their My Profile Page.



#### All Messages Page:

The **All Messages Page** saves all communications between users (any combination of Planners and Vendors). The All Messages Page showcases users' name, profile picture and the most recent message sent. Users can click on any chat log to go to the **Message Detail Page** with that Vendor and or Planner.

- Users are brought to this page upon:
  - clicking the **Message Icon** in the **Navigation Bar**.
  - clicking the Back Button on the Message Detail Page.
  - clicking the Message Icon on the Vendor's Profile Page.
- ➤ Upon arriving at the **All Messages Page**, the user will see a list of pre-existing chats with Vendors and Planners.
  - A "No messages" message will be displayed if the user has not been in contact with anyone prior.
  - Link saying 'Find Vendors under 'no messages' takes the user to **The**Network Page to search for vendors.
- > Users can click on any message box to bring them to the **Message Detail Page**.



#### Message Detail Page:

The **Message Detail page** will be where users can send direct messages to their Vendor or Planner to discuss details for events, such as timing or pricing. The page will display the user with whom they are communicating at the top, and their profile image on the side of every message. The chat messages will be saved and displayed every time the user opens up the chat with that particular user. Users can click the back button to go to the **All Messages page**.

- ➤ Users are brought to this page upon:
  - Clicking the **Message Button** on the **Vendor Page**
  - Clicking a specific chat log in the All Messages page
- ➤ Users can use the input box on the bottom of the screen to type and click the **Send Button** to send the message.
- ➤ Users can click on the profile picture of the user they are chatting with and will be brought to the corresponding **Profile Page** (Stretch).



#### 

We want to share our ideas with Contrive for future reference.

#### Create Event Page (Event Planners) (Stretch):

Event Planners will use the Create Event page to input information such as event type, name, description, number of guests, and location of the event they are hosting. Once the Planner finishes the form they can click the **Submit** button to add the event to their **My Events** page (**My Events** page is a Stretch).

- ➤ Event Planners are brought to this page upon clicking the **Add Icon** in the **Navigation Bar.**
- > Form for Event Planners to input details about the event.
- Create Button to bring the user to the Events Detail Page upon form completion.
- > Cancel button to bring the user to the Component Drawer.



#### Event Created Confirmation Page (Event Planners) (Stretch):

**Event Created Confirmation Page** shows the Event Planner that their event has been successfully created. It will show some recommended Vendors with ratings (Stretch Goal) and Vendor names.

- ➤ Event Planners are brought to this page right after they submit an event from the Create Event Page.
- > This page will display a message saying that the event was successfully created.
- ➤ It will display a few recommended Vendors based on the inputs from your form submission on the **Create Event Page**.
- ➤ The Planner can click on "Recommended Vendors" to see the individual **Vendor's Profile Page**.
- > There will be two buttons:
  - Search Vendors which will take the user to The Network Search Page.
  - Skip for Now which will take the user to the Event Detail Page (Stretch).



#### Event Detail Page (Stretch):

Once an Event Planner adds an event, users can visit the **Event Detail Page** to access all the information about the event, including the Vendors hired for the event. The host of the event can edit/add any information and Vendors as the planning continues.

- > Users are brought to this page from:
  - Clicking on an event from My Events Page.
  - Clicking on an event from My Calendar Page (Stretch).
  - Clicking on an image from **Inspiration Page** (Stretch).
- > This page will display details of an event and Vendors currently hired.
- > Planners that are hosting the event will have **Edit and Delete buttons** displayed for their event.



Edit Event Detail Page (Event Planners) (Stretch):

Planners can click the **Edit button** on the **Event Detail page** of THEIR events to get to the **Edit Event Detail Page**. The details on the page will turn into input fields for users to edit.

- > Event Planners are brought to this page upon clicking the **Edit button** on the **Event Detail Page** of their events.
- > Form for Event Planners to edit details about the event.
- ❖ Save and Cancel button to bring the user back to the Events Detail Page upon form completion.

#### Profile Page (Event Planner) (Stretch):

The **My Profile Page (Event Planner)** is where the Planners can set up their profile, adding information and uploading and sharing events and photos. What they have here on the **My Profile Page** will essentially be what other users see when they visit their profile, except the Planner will also have a few buttons to add things to their profile that visiting users will not see.

- ➤ Event Planners are brought to their own profile page upon clicking the **My Profile Button** on the **Component Drawer**.
- > Other users (not this Planner) will view the **Planner's Profile Page** (without edit button) by clicking the Planner thumbnail on **Event Details**.
- ➤ Event Planners will display their information, bio, events, and photos of events they have previously hosted.
- > There is an "Edit Button" that will bring users to their Edit Planner Profile Page.



#### **Edit Planner Profile Page (Event Planners) (Stretch):**

Planners can click the **Edit button** on their **My Profile Page** to get to the **Edit Planner Profile Page**. The details on the profile page will turn into input fields. Can add/remove to showcase their public events and photos from past events as well

- ➤ Event Planners are brought to this page upon clicking the **Edit button** on their **My Profile Page**.
- > Form for Event Planners to edit details on their Profile.
- > Save button updates user information and brings the user back to their My Profile Page, with updated info displaying.
- Cancel button brings the user back to their My Profile Page without making any changes.

#### My Network Page (Event Planners) (Stretch):

Users will have a **My Network page** that they get to from their **Component Drawer**. This view shows a grid similar to that of **The Network Search page**. This will show a list of Planners and Vendors that the user has added to their network from the respective **Profile pages**. Users will have the option to remove other users in their network with a '**Remove**' button.

- ➤ Users are brought to this page upon clicking the My Network Button on the Component Drawer.
- > Displaying a list of Vendors which the Planner has selected from **My Network**.
- Planners can add Vendors to their My Network through a plus button on Vendor Profile Pages that they visit.
- ➤ Planners can click on a Vendor thumbnail/box and it will bring them to the **Vendor Profile Page**.
- ➤ Layout is similar to **The Network Search Page**, with networked Vendors laid out in a grid format.
- ➤ Users will have the option to remove other users in their network with a 'Remove' button.



#### My Events Page (Both) (Stretch):

The **My Events** page will display all events the Event Planners are hosting and all events Vendors are hired for. There will be an Event name and time listed for each event and users can click on an event to go and check the details of the event on the **Event Detail Page.** Users can also choose to delete an event from this page.

- ➤ Users are brought to this page upon clicking the My Events Button on the Component Drawer.
- > Displaying a list of events both past and upcoming events.
  - Future enhancement would be to offer different views of past/upcoming events
- > Users can click on events to bring them to the **Event Detail Page**.



#### \* Admin Page (Admin) (Stretch):

Once logged in, Admins can search through all users to find a specific user. Once drilled into a user, the Admin has the ability to **Delete** the user account and in the case of Vendors, certify the Vendor.

- > Admins are brought to this page from the **Login Page**.
- > This page will render all users registered for the app.
- > The search bar allows the Admin to find a specific user
- Admin has the option to **Delete** any user, and a confirmation message will show up when the Admin clicks the Delete button.
- > Admin has the option to Certify and Uncertify any Vendor



#### My Calendar Page (Both) (Stretch):

- ➤ Users are brought to this page upon clicking the My Calendar Button on the Component Drawer.
- ➤ Displaying a list of events that past and upcoming events in a calendar view month by month.
- ➤ Users can click on a date to view an event (in a small pop up?).
- > Users can click on events to bring them to the **Events Detail Page**.
- > Planners can click on a date and add an event on that date.

#### Inspiration Page (Event Planners) (Stretch):

- > Event Planners are brought to this page upon clicking the **Inspiration Button** on the **Component Drawer**.
- > This page will display multiple pictures from events uploaded by other users.
- > Clicking on the image will bring the user to the **Event Detail Page**

#### Key Metrics (Vendor) (Stretch):

- ➤ Displays numbers for profiles such as Connections, Likes, Views and Conversations.
- > Vendors get to this page from their **Component Drawer**, taking the place of the 'Inspiration' button.

# Project Features and Schedule

Feature	Estimated Due Date	Stage (Base, Stretch)
Database setup	04/12/2021	Base
Landing Page	04/12/2021	Base
Login Page	04/12/2021	Base
Planner Registration	04/12/2021	Base
Vendor Registration	04/12/2021	Base
Navigation Bar	04/13/2021	Base
Component Drawer	04/13/2021	Base
Discover Page	04/13/2021	Base
The Network Search (Static Page)	04/13/2021	Base
Messages List Page	04/13/2021	Base
The Network Search	04/14/2021	Base
The Network Search (Active Filter Search)	04/14/2021	Base
Message	04/14/2021	Base
Vendor Profile	04/15/2021	Base
Edit Vendor Profile	04/15/2021	Base
Suggested Vendors	04/16/2021	Base
Check Global Styling	04/20/2021	Base
Create Event	04/20/2021	Stretch
Edit Event	04/20/2021	Stretch
Admin Landing Page	04/21/2021	Stretch
Admin Search	04/21/2021	Stretch
Admin - Delete Vendor	04/21/2021	Stretch

Planner Profile	04/22/2021	Stretch
Edit Planner Profile	04/22/2021	Stretch
My Events	04/23/2021	Stretch
Vendor Certification		Stretch
Prepopulated Messages for first Messages		Stretch
Go to Profile Page from Message Picture (Messages [List])		Stretch
Go to Profile Page from Message Picture		Stretch
User Profile Picture		Stretch
Upload photos to Planner Profile Page		Stretch
Upload photos to Vendor Profile Page		Stretch
Mile radius on suggested search		Stretch
Ability to go back to suggested vendors after clicking into one from the Event Created confirmation page		Stretch
My Networks (Planner)		Stretch
My Networks (Vendor)		Stretch
My Calendar (Planner)		Stretch
My Calendar (Vendor)		Stretch
Inspiration		Stretch
Key Metrics		Stretch
Feedback		Stretch

### **Browsers**

The application will fully support browsers listed below. All browsers or versions not listed below are considered out of scope.

Browser Name	Version
Chrome	89
Firefox	87

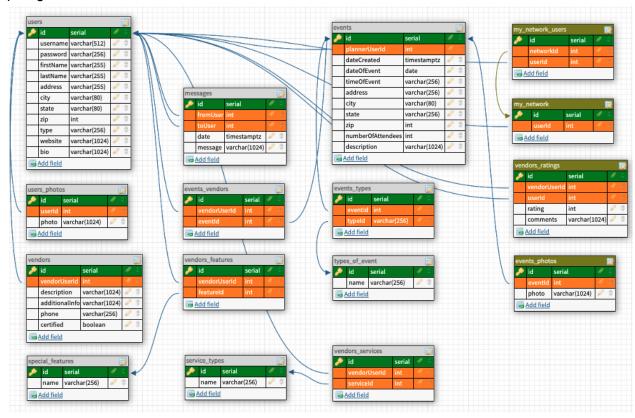
# **Assumptions**

While completing this estimate the following assumptions were made.

- 3rd party API for zip codes and/or geo-coordinates is available.
- Said 3rd party location API can be implemented within 2 days.
- A messaging feature can be implemented within 2 days for real-time chat interactions.
- Clients will provide static images for the inspiration page.

# Entity Relationship Diagram:

\*Tables pertaining to base mode have gray headers, while those pertaining to Stretch have a pea-green header



https://app.dbdesigner.net/designer/schema/408595

# **Technologies**

- JavaScript
- HTML
- CSS
- Node
- Express
- React
- Redux
- Sagas
- Passport
- Postico
- PostgreSQL
- Material-UI
- Moment
- Socket.io
- AWS (Amazon Web Services)
- Heroku

## Research Spikes

These research spikes are to be conducted before development on the application begins and is time boxed to 2 days per spike. Spikes will run in parallel.

- Socket.io Messages / Chat
- Database Setup / Queries
- GIS Locations
- React Hook GeoLocation
- AWS Photo Upload
- Material-UI Style Guide

### Stretch Goals

- Admin Landing Page
- Admin Search
- Admin Delete Vendor
- Admin Vendor Certification
- Planner Profile
- Edit Planner Profile
- My Events Planner
- My Events Vendor
- Prepopulated Messages for first Messages
- Go to Profile Page from Message Picture (Messages)
- Go to Profile Page from Message Picture (Message Detail)
- User Profile Picture
- Upload photos to Planner Profile Page
- Upload photos to Vendor Profile Page
- Mile Radius on Suggested Search
- My Network Planner
- My Network Vendor
- My Calendar Planner
- My Calendar Vendor
- Inspiration
- Key Metrics
- User Feedback

### Prime Digital Academy Pro-Bono Project Terms

The following terms apply to your participation in Prime Digital Academy Pro-Bono Project ("Grant") offered by Prime Digital Academy ("Prime"). By submitting your project to Prime, you agree to comply with these terms:

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Contrive		
ORGANIZATION NAME		
Aretha McDonald	Alexandria Watkins	
NAME (PRINT)	AWatkins	10/04/2021
SIGNATURE		DATE